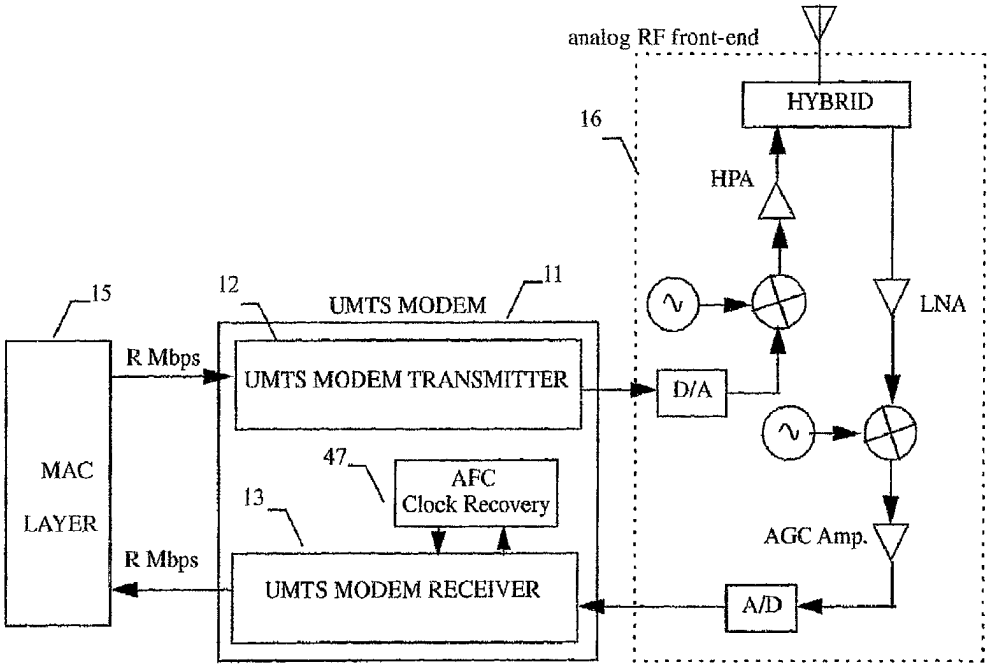

FIGURE 1 An UMTS Modem System Block Diagram, (Prior art)

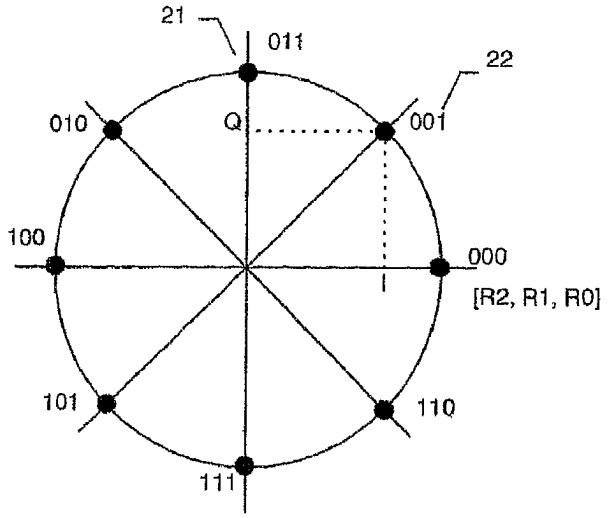

FIGURE 2. An 8-PSK constellations, (Prior art)

Table 1.

Symbol	I	Q
000	1.0	0.0
001	0.7071	0.7071
010	-0.7071	0.7071
011	0.0	1.0
100	-1.0	0.0
101	-0.7071	-0.7071
110	0.7071	-0.7071
111	0.0	-1.0

FIGURE 3. An UMTS Modem Transmitter Functional Block Diagram

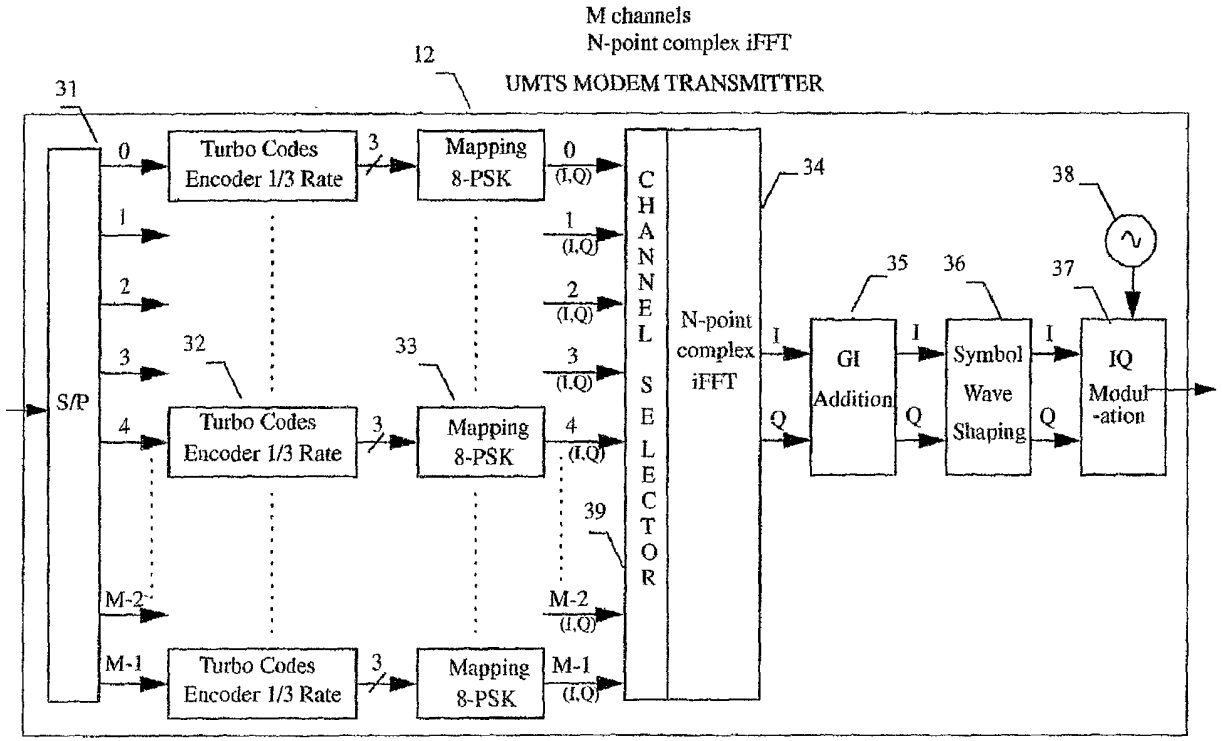

FIGURE 4. An UMTS Modem Receiver Functional Block Diagram